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IN THE CLAIMS

1. (currently amended) A method for improving the accuracy of optical detection in a quantitative polymerase chain reaction detecting a target nucleic acid in a sample, comprising the step of amplifying the target nucleic acid using a polymerase chain reaction, wherein said carrying out said polymerase chain reaction is carried out in the presence of an effective amount of at least one anti-foam reagent that does not substantially inhibit the action of the polymerase, and detecting the product of said polymerase chain reaction.

- 2. (canceled)
- 3. (Original) The method according to claim [[2]] $\underline{\mathbf{1}}$, wherein said polymerase chain reaction is a reverse transcriptase polymerase chain reaction
 - 4. (canceled)
- 5. (Withdrawn amended) The method according to claim [[4]] 1, comprising detecting said product using a probe labeled with a detectable label.
- 6. (Withdrawn) The method according to claim 5, wherein said detectable label is a fluorescent dye.
- 7. (Currently amended) The method according to claim [[4]] 1, comprising detecting said product using a fluorescent nucleic acid-binding dye.
- 8. (Currently amended) The method according to any of claim 1, wherein said polymerase chain reaction is carried out in the presence of an effective amount of at least two anti-foam reagents.
- 9. (Original) The method according to claim 1, wherein said anti-foam agent is selected from the group consisting of 1520-US, AF, FG-10, O-30, SE-15, and Antifoam B.

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- 10. (Original) The method according to claim 8, wherein said at least two anti-foam reagents are selected from the group consisting of 1520-US, AF, FG-10, O-30, SE-15, and Antifoam B.
 - 11. (Currently amended) A composition for amplifying a target nucleic acid, comprising
 - (a) at least one primer molecule that hybridizes to the target nucleic acid;
 - (b) nucleotide triphosphates
 - (c) a thermostable DNA polymerase
 - (d) a detergent; and
- (e) an effective amount of at least one anti-foam reagent that does not substantially inhibit the action of said thermostable DNA polymerase, and

(f) a probe labeled with a detectable label.

- 12. (Original) A composition according to claim 11, comprising at least two anti-foam reagents.
- 13. (Original) A composition according to claim 11 wherein said anti-foam agent is selected from the group consisting of 1520-US, AF, FG-10, O-30, SE-15, and Antifoam B.
- 14. (Original) The composition according to claim 12, wherein said at least two antifoam reagents are selected from the group consisting of 1520-US, AF, FG-10, O-30, SE-15, and Antifoam B.
- 15. (Original) The method according to claim 1 wherein said polymerase chain reaction is carried out in a sample chamber of a device comprising a plurality of said sample chambers.
- 16. (Original) The method according to claim 15, wherein each of a plurality of said sample chambers of said device contains reagents suitable for detecting a target nucleic acid.

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- 17. (Original) The method according to claim 16, wherein a plurality of sample chambers of said device contains reagents suitable for detecting different target nucleic acids.
- 18. (Original) The method according to claim 17, further comprising detecting the amplified products in said sample chambers by optical detection.
- 19. (Withdrawn) The method according to claim 18, comprising detecting said amplified products using a probe labeled with a detectable label.
- 20. (Withdrawn) The method according to claim 19, wherein said detectable label is a fluorescent dye.
- 21. (Original) The method according to claim 18, comprising detecting said amplified products using a fluorescent nucleic acid-binding dye.
- 22. (New) The method according to claim 1, wherein said polymerase chain reaction is a hot start polymerase chain reaction.